

GILA RIVER BASIN

09447800 BONITA CREEK NEAR MORENCI, AZ

LOCATION--Lat 32°57'20", long 109°31'50", in SE_{1/4}NW_{1/4} sec. 36, T.5 S., R.27 E., Graham County, Hydrologic Unit 15040005, on left bank 2 mi upstream from intake of city of Safford water supply, 6.3 mi upstream from mouth, and 12.8 mi southwest of Morenci.

DRAINAGE AREA--302 mi².

PERIOD OF RECORD--Aug. 1981 to current year.

GAGE--Water-stage recorder. Elevation of gage is 3,500 ft above sea level, from topographic map. Two crest-stage gages 440 ft upstream on right and left banks.

REMARKS--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 19,500 ft³/s Jan. 18, 1993, gage height, 16.5 ft, from slope-area measurement of peak flow; minimum daily, 0.66 ft³/s Aug. 31, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD--Flood of Dec. 20, 1972, 10,000 ft³/s, from slope-area measurement made by city of Safford at site about 2 mi downstream.

Flood of June 27, 1981, 1,340 ft³/s, from slope-area measurement at present site, gage height, 5.6 ft, from floodmark.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 300 ft³/s and (or) maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Feb. 12	1452	*1,720	*8.47a

Minimum daily discharge, 1.3 ft³/s, Aug. 18 to 25.

a-from floodmark

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.3	2.5	3.3	4.9	9.3	3.6	2.8	1.9	1.7	1.7	1.5
2	2.3	2.3	2.5	3.4	4.8	8.6	3.6	2.8	1.9	1.7	1.6	1.6
3	2.4	2.3	2.5	3.4	4.8	8.0	3.5	2.7	1.9	1.7	1.6	1.7
4	2.3	2.3	2.6	8.6	4.9	7.8	3.5	2.6	1.9	1.7	1.6	1.7
5	2.3	2.3	2.6	15	5.7	7.4	3.5	2.5	1.8	1.7	1.6	1.7
6	2.4	2.3	2.7	8.8	6.4	7.5	3.4	2.5	1.8	1.7	1.6	1.8
7	2.4	2.4	2.7	6.4	6.4	7.3	3.3	2.5	1.8	1.7	1.5	1.9
8	2.4	2.4	2.6	5.4	6.4	7.0	3.3	2.4	1.8	1.7	1.5	2.0
9	2.4	2.4	2.7	5.0	6.3	6.7	3.2	2.4	1.8	1.7	1.6	2.0
10	2.4	2.4	2.7	4.7	7.9	6.5	3.3	2.3	1.8	1.7	1.5	2.0
11	2.5	2.4	2.8	4.6	9.0	6.2	3.3	2.3	1.7	1.7	1.5	1.9
12	2.4	2.4	2.7	4.7	926	6.0	3.3	2.3	1.7	1.7	1.5	2.0
13	2.5	2.4	2.7	4.6	481	5.9	3.2	2.3	1.7	1.7	1.5	2.0
14	2.5	2.4	2.7	4.5	e98	5.8	3.1	2.3	1.7	1.7	1.5	2.0
15	2.4	2.4	2.8	5.3	e39	5.8	3.1	2.3	1.7	1.7	1.4	2.0
16	2.4	2.4	2.8	5.3	e24	5.7	3.0	2.3	1.8	1.7	1.4	2.0
17	2.4	2.4	2.8	5.3	e18	5.6	2.9	2.3	1.8	1.6	1.4	2.0
18	2.4	2.4	2.8	5.1	14	5.5	3.0	2.2	1.8	1.7	1.3	1.9
19	2.4	2.3	2.8	5.1	18	5.3	3.0	2.2	1.7	1.6	1.3	1.9
20	2.3	2.3	2.9	5.0	113	5.3	2.9	2.2	1.6	1.6	1.3	1.9
21	2.4	2.3	3.0	5.0	142	5.1	2.9	2.2	1.7	1.7	1.3	1.9
22	2.4	2.9	3.0	4.9	47	5.0	2.9	2.1	1.6	1.7	1.3	1.9
23	2.4	2.5	3.0	4.8	24	4.8	2.9	2.1	1.6	1.6	1.3	1.9
24	2.3	2.4	3.0	4.8	16	4.6	3.1	2.1	1.7	1.7	1.3	1.9
25	2.3	2.4	3.0	4.8	13	4.7	3.0	2.1	1.7	1.6	1.3	1.9
26	2.3	2.4	3.1	4.9	12	4.8	3.0	2.1	1.7	1.7	1.4	1.9
27	2.3	2.4	3.1	5.2	11	4.7	2.9	2.0	1.7	1.7	1.4	1.9
28	2.3	2.4	3.1	5.1	9.8	4.5	2.9	2.0	1.7	1.7	1.5	2.0
29	2.3	2.4	3.1	4.9	---	4.3	2.9	2.0	1.7	1.7	1.5	1.9
30	2.3	2.4	3.2	4.8	---	4.0	2.9	2.0	1.7	1.7	1.5	2.0
31	2.3	---	3.2	5.0	---	3.7	---	2.0	---	1.7	1.5	---
TOTAL	73.4	71.7	87.7	167.7	2073.3	183.4	94.4	70.9	52.4	52.2	45.2	56.7
MEAN	2.37	2.39	2.83	5.41	74.0	5.92	3.15	2.29	1.75	1.68	1.46	1.89
MAX	2.5	2.9	3.2	15	926	9.3	3.6	2.8	1.9	1.7	1.7	2.0
MIN	2.3	2.3	2.5	3.3	4.8	3.7	2.9	2.0	1.6	1.6	1.3	1.5
AC-FT	146	142	174	333	4110	364	187	141	104	104	90	112
CFSM	0.01	0.01	0.01	0.02	0.25	0.02	0.01	0.01	0.01	0.01	0.00	0.01
IN.	0.01	0.01	0.01	0.02	0.26	0.02	0.01	0.01	0.01	0.01	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, BY WATER YEAR (WY)

MEAN	13.0	6.22	8.89	46.2	26.9	12.8	4.86	3.80	3.07	6.44	7.15	7.04
MAX	176	21.7	29.6	769	165	53.6	10.7	6.33	5.86	44.5	14.6	28.6
(WY)	1984	1995	1983	1993	1993	1995	1998	1993	1995	1999	2000	1996
MIN	1.52	1.86	2.26	2.43	2.71	2.74	2.00	2.10	1.32	1.68	1.46	1.20
(WY)	1992	1992	2004	2004	2004	2001	1991	1991	1982	2005	2005	2003

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1982 - 2005

ANNUAL TOTAL	984.5	3029.0										
ANNUAL MEAN	2.69	8.30										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	7.0	Aug 18	926	Feb 12								
LOWEST DAILY MEAN	1.4	Aug 7	1.3	Aug 18								
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 1	1.3	Aug 18								
ANNUAL RUNOFF (AC-FT)	1950		6010									
ANNUAL RUNOFF (CFSM)	0.009		0.027									
ANNUAL RUNOFF (INCHES)	0.12		0.37									
10 PERCENT EXCEEDS	3.8		6.3									
50 PERCENT EXCEEDS	2.4		2.4									
90 PERCENT EXCEEDS	2.0		1.6									

e Estimated